

## ABSTRACT OF THE DISCLOSURE

An optical interconnect system having a GRIN rod lens, the GRIN rod lens having a first end and a second end, and further having a  
5 preselected length, a preselected width and a preselected index of refraction. Means are fixedly secured to the first end of the GRIN rod lens for emitting electromagnetic radiation and means are fixedly secured to said second end of said GRIN rod lens for  
10 receiving the emitted electromagnetic radiation. The GRIN rod lens forms an image of the emitting means onto the receiving means and overcomes problems associated with misalignment. Further embodiments of this optical interconnect system are capable of use in even further applications in an environment where alignment  
15 problems are at issue.

6536-112/PatApp4